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NOTICE OF ALLOWANCE AND FEE(S) DUE

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04/17/2009

TOWNSEND AND TOWNSEND AND CREW LLP/ 015114 TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111-3834

EXAMINER				
WASHBURN, DANIEL C				
ART UNIT PAPER NUMBER				

2628

DATE MAILED: 04/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,695	09/05/2003	Mihail Iotov	015114-066000US	7181

TITLE OF INVENTION: TECHNIQUES FOR GRAPHICAL ANALYSIS AND MANIPULATION OF CIRCUIT TIMING REQUIREMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	07/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.	
10/655,695	09/05/2003	•	Mihail Iotov		01	.5114-066000US	7181	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
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EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
WASHBURN	N, DANIEL C	2628	345-440000					
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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,695 09/05/2003	Mihail Iotov	015114-066000US	7181
26059 7590 04/17/2009		EXAM	INER
TOWNSEND AND TOWNSEND ANI	WASHBURN, DANIEL C		
TWO EMBARCADERO CENTER	ART UNIT	PAPER NUMBER	
8TH FLOOR SAN FRANCISCO, CA 94111-3834	2628 DATE MAIL ED: 04/17/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 457 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 457 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	Application No.			
Notice of Allowability	10/655,695	IOTOV, MIHAIL		
Notice of Allowability	Examiner	Art Unit		
	DANIEL WASHBURN	2628		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communated in the communated communated in the communated in the communated in the community of	his application. If not included ication will be mailed in due cours		
1. $igstyle$ This communication is responsive to <u>the amendment after</u>	final submitted 3/24/09.			
2. X The allowed claim(s) is/are <u>1,5,9-12 and 16-21</u> .				
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		(f).		
2. Certified copies of the priority documents have	e been received in Application	No		
3. Copies of the certified copies of the priority do	ocuments have been received	in this national stage application fr	om the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requiren	nents	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 			E OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	's Amendment / Comment or i	n the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			he	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	E □ Notice of Info	rmal Dotant Application		
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4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☐ Examiner's Statement of Reasons for Allowance of Biological Material				
(Dep. Machaum)	9.			
/Dan Washburn/ Examiner, Art Unit 2628				

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Ardeshir Tabibi on Thursday April 9, 2009 at 1 pm.

In the interview Examiner Washburn brought up antecedent basis issues with the language 'timing parameters' found in claims 9, 10, 18, 19, and 21. Attorney Tabibi agreed to an examiner's amendment to remedy the problems. Attorney Tabibi's after-final amendment also included other amendments to address antecedent basis issues and a typographical error, those amendments are also given below as the after-final amendment isn't being entered to avoid confusion over the claim language included in the allowable claims.

The application has been amended as follows:

Claim 1 (only last four lines):

...receiving edits to the time points of interest in response to a user moving the pointers on [[the]] an interactive graphical user interface; and

modifying the circuit so as to cause a change in relative timing of the at least one launch edge and the at least one latch edge based on the edits to the time points of interest.

Application/Control Number: 10/655,695 Page 3

Art Unit: 2628

Claim 5 (only first two lines):

The method of claim 1 wherein:

the time duration of the display of the first, second[[.]], third and fourth...

Claim 9:

The method of claim 1 wherein: further comprising:

updating the timing parameters <u>data</u> based on the edits to the time points of interest <u>further comprises</u> <u>by</u> inverting the launch edge of the first clock signal, either in a design file or as an input to a static timing verification tool.

Claim 10:

The method of claim 1 wherein: further comprising:

updating the timing parameters <u>data</u> based on the edits to the time points of interest <u>further comprises</u> <u>by</u> inverting the latch edge of the second clock signal.

Claim 11 (only last four lines):

...receive edits to the time points of interest in response to a user moving the pointers on [[the]] <u>an</u> interactive graphical user interface; and

modify the circuit so as to cause a change in relative timing of the at least one launch edge and the at least one latch edge based on the edits to the time points of interest.

Art Unit: 2628

Claim 17:

The computer-readable medium according to claim 16 wherein the display of the pointers to the time points of interest on the waveforms further comprises:

display of a third pointer to an edge of the first waveform that corresponds to [[the]] <u>a</u> source multi-cycle edge of the first waveform; and

display of a fourth pointer to an edge of the second waveform that corresponds to [[the]] <u>a</u> destination multi-cycle edge of the second waveform.

Claim 18 (only first four lines):

The computer-readable medium according to claim 16 wherein the set of instructions when executed by the computer further causes the computer to generate

[[the]] new timing parameters <u>data</u> based on the edits to the time points of interest by...

Claim 19 (only first four lines):

The computer-readable medium according to claim 17 wherein the set of instructions when executed by the computer further causes the computer to generate

[[the]] new timing parameters data based on the edits to the time points of interest by...

Claim 21 (only last two lines):

...verification analysis on the circuit design using the new timing parameters

based on the edits to the time points of interest and displays the updated waveforms in the interactive graphical user interface.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bloom et al. (US 6,871,331 and US 6,675,310) describes a combined waveform and data entry apparatus and method for facilitating fast behavioral verification of digital hardware designs and Kudo (JP 11195053 A) describes a system and method to easily and speedily generate signal waveforms by clicking and dragging a select part of a display waveform in a waveform editing area of a display means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL WASHBURN whose telephone number is (571)272-5551. The examiner can normally be reached on Monday through Friday 8:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on (571) 272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dan Washburn/ Examiner, Art Unit 2628 4/9/09 /Kee M Tung/ Supervisory Patent Examiner, Art Unit 2628